

# PATENT ABSTRACTS OF JAPAN

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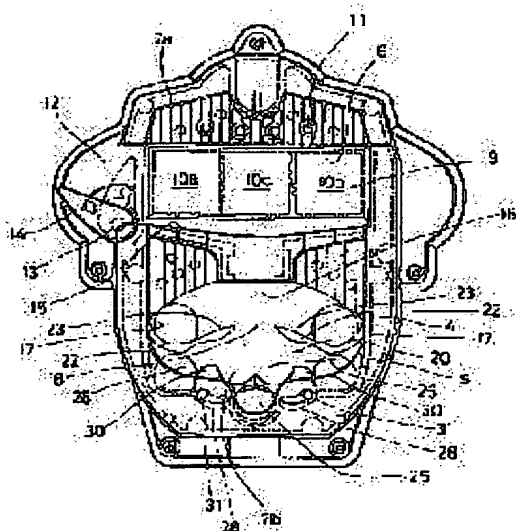
## (54) JAPANESE PINBALL GAME (PACHINKO) MACHINE

(57)Abstract:

**PURPOSE:** To provide a Japanese pinball game (PACHINKO) machine provided with a new prize-winning device for enabling to generate an operating which abounds in a variation by constituting the machine so that when it becomes a prescribed combination picture pattern by a picture pattern combination display device, a prescribed prize-winning device is driven, and when a prescribed prize-winning condition is satisfied, the right of a great hit is generated.

**CONSTITUTION:** In a distributing vacant part 20 in a prize-winning device 4 for receiving a ball by an opening operation of an opening/closing blade piece 14, guide blade pieces 30, 30 are supported so as to be turnable, a special operating port 25 and ordinary passing ports 26, 26 are shielded in its lying-down state, balls x1, x2 are supported on the supporting faces, respectively formed in mounting blade parts of the guide blade pieces 30, 30, only one piece of ball x3 is supported on the middle of the balls x1, x2, the guide blade pieces 30, 30 are converted to an erect state and

the balls x1, x2 are allowed to flow into the ordinary passing ports 26, 26. Also, the prize-winning device 4 is constituted so that the ball x3 flows into the special operating port 25, and an operation for providing prescribed gain to a player is generated by a fact that the ball flows into the special operating port 25.



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**CLAIMS**

[Claim(s)]

[Claim 1] The pachinko machine characterized by providing the following Form the ball passage as for which open control is carried out by the piece of opening-and-closing wings, and distribute to the interior of a winning-a-prize case down the ball passage, and a hollow part is formed in it. Distribute with this ball passage, open a hollow part for free passage by the ball flowing-down way, and a ball exhaust port is arranged in the flank of this ball flowing-down way. The guidance side which distributes with the aforementioned ball flowing-down way, and shows a superfluous ball to a ball exhaust port to the flank of a free passage mouth with a hollow part is formed, while arranging an operation mouth specially directly under a free passage mouth in a symmetry hollow part and usually arranging a passage mouth in the both sides of this special operation mouth, it is specially supported between an operation mouth and both the common passage mouth, and it is a standing-up position. \*\*\*\*\* which rotation conversion is carried out in the lying-down position rotated the inner direction from this position, and intercepts an operation mouth specially in this lying-down position and by which the back face which a ball piece \*\*\*\* was formed in the upper surface Have the covered section which a manifold type is carried out to the outer edge of this

\*\*\*\*\*, and usually intercepts a passage mouth in this lying-down position, and a passage mouth is usually further intercepted by \*\*\*\*\* in a standing-up position. It supports pivotably possible [ rotation of the piece of a guide vane of two pieces of right and left which open a free passage mouth and a special operation mouth for free passage ]. A piece [ every ] ball \*\*\*\* on the back face of \*\*\*\*\*, respectively, the standby opening which eliminates the ball beyond it to a guidance side side as \*\*\*\* being possible only in the third ball on the middle of both \*\*\*\*\* is formed, and the aforementioned piece pair of a guide vane is further lying-down-located in the lower part of this free passage mouth in the lying-down position of the piece of both guide vanes. Winning-a-prize equipment which comes to prepare for a standing-up position the rotation equipment which carries out rotation conversion

[Claim 2] If a game sphere passes through the starting gate which was constituted by two or more pattern displays which indicate the various patterns defined beforehand by change, and was equipped with sphere detection equipment Based on the sphere detection signal from sphere detection equipment, each pattern display starts change. Have the pattern combination display which stops and displays the pattern of various combination, and form in the interior of a winning-a-prize case the ball passage as for which open control is carried out by the piece of opening-and-closing wings, and distribute down the ball passage and a hollow part is formed. Distribute with this ball passage, open a hollow part for free passage by the ball flowing-down way, and a ball exhaust port is arranged in the flank of this ball flowing-down way. While forming the guidance side which distributes with the aforementioned ball flowing-down way, and shows a superfluous ball to a ball exhaust port to the flank of a free passage mouth with a hollow part, arranging an operation mouth specially directly under a free passage mouth in a symmetry hollow part and usually arranging a passage mouth in the both sides of this special operation mouth \*\*\*\*\* which is specially supported between an operation mouth and both the common passage mouth, and rotation conversion is carried out in a standing-up position and the lying-down position rotated the inner direction from this position, and intercepts an operation mouth specially in this lying-down position and by which the back face which a ball piece \*\*\*\* was formed in the upper surface, Have the covered section which a manifold type is carried out to the outer edge of this \*\*\*\*\*, and usually intercepts a passage mouth in this lying-down position, and a passage mouth is usually further intercepted by \*\*\*\*\* in a standing-up position. It supports pivotably possible [ rotation of the piece of a guide vane of two pieces of right and left which open a free passage mouth and a special operation mouth for free passage ]. In the lower part of this free passage mouth, a piece [ every ] ball \*\*\*\* on the back face of \*\*\*\*\* in the lying-down position of the piece of both guide vanes, respectively. The standby opening which eliminates the ball beyond it to a guidance side side as \*\*\*\* being possible only in the third ball is formed on between both \*\*\*\*\*, further the aforementioned piece pair of a guide vane A lying-down position, If it has winning-a-prize equipment which comes to prepare for a standing-up position the rotation control unit which carries out rotation conversion and each halt pattern of the aforementioned pattern combination display serves as "great success" display which is predetermined combination, while opening the piece of opening-and-closing wings of the aforementioned winning-a-prize equipment By making the piece pair of a guide vane into a lying-down position, controlling rotation equipment to rotate the piece of a guide vane and to become a standing-up position after predetermined-time progress, and detecting the ball which flowed into the aforementioned special operation mouth further The pachinko machine characterized by equipping a play person with the control means which generate a gain \*\*\*\* predetermined operation on the play face of a board.

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**DETAILED DESCRIPTION**

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[Detailed Description of the Invention]

[0001]

[Industrial Application] this invention relates to the pachinko machine equipped with winning-a-prize equipment.

[0002]

[Description of the Prior Art] If a game sphere passes through the starting gate which was constituted by two or more pattern displays which indicate the various patterns defined beforehand by change, and was equipped with sphere detection equipment Based on the sphere detection signal from sphere detection equipment, each pattern display starts change. It has the pattern combination display which stops and displays the pattern of various combination, and when each halt pattern of this pattern combination display is predetermined combination, various pachinko machines it was made to make a play person generate a gain \*\*\*\* predetermined operation on the play face of a board are proposed.

[0003] By the way, disagreeable \*\*\*\*\* which lacks in \*\*\*\*\* of a game on the contrary since profits will be certainly offered if it is in this kind of pachinko machine, it is in the composition which supplies direct predetermined profits as great success when it becomes a predetermined hookup drawing handle with pattern combination display, and it is becoming it a great success. Then, if predetermined winning-a-prize equipment is made to drive and certain winning-a-prize conditions are filled with a great success state, as the right of great success is generated, the thing of composition of having produced complication of a game is proposed.

[0004] On the other hand, even if it is in the composition which does not use pattern combination display, the winning-a-prize equipment for generating predetermined gain is proposed variously.

[0005]

[Problem(s) to be Solved by the Invention] this invention is in the thing equipped with above-mentioned winning-a-prize equipment, and aims at offer possessing the new winning-a-prize equipment which may produce the operation which was rich in change of a pachinko machine.

[0006]

[Means for Solving the Problem] this invention forms the ball passage as for which open control is carried out by the piece of opening-and-closing wings, and distribute it to the interior of a winning-a-prize case down the ball passage, and it forms a hollow part in it. Distribute with this ball passage, open a hollow part for free passage by the ball flowing-down way, and a ball exhaust port is arranged in the flank of this ball flowing-down way. While forming the guide plane which distributes with the aforementioned ball flowing-down way, and shows a superfluous ball to a ball exhaust port to the flank of a free passage mouth with a hollow part, arranging an operation mouth

specially directly under a free passage mouth in a symmetry hollow part and usually arranging a passage mouth in the both sides of this special operation mouth The \*\*\*\* pars alaris which is specially supported between an operation mouth and both the common passage mouth, and rotation conversion is carried out in a standing-up position and the lying-down position rotated the inner direction from this position, and intercepts an operation mouth specially in this lying-down position and by which the back face which a ball piece \*\*\*\* was formed in the upper surface, Have the covered section which a manifold type is carried out to the outer edge of this \*\*\*\* pars alaris, and usually intercepts a passage mouth in this lying-down position, and a passage mouth is usually further intercepted by the \*\*\*\* pars alaris in a standing-up position. It supports pivotably possible [ rotation of the piece of a guide vane of two pieces of right and left which open a free passage mouth and a special operation mouth for free passage ]. In the lower part of this free passage mouth, a piece [ every ] ball \*\*\*\* on the back face of the \*\*\*\* pars alaris in the lying-down position of the piece of both guide vanes, respectively. It is the pachinko machine which the standby opening which eliminates the ball beyond it to a guide-plane side as \*\*\*\* being possible only in the third ball is formed on the middle of both \*\*\*\*\*, and is further characterized by having winning-a-prize equipment which comes to have rotation equipment which carries out rotation conversion of the aforementioned piece pair of a guide vane in a lying-down position and a standing-up position. [0007] Or if a game sphere passes through the starting gate which was constituted by two or more pattern displays which indicate the various patterns defined beforehand by change, and was equipped with sphere detection equipment while having above-mentioned winning-a-prize equipment Based on the sphere detection signal from sphere detection equipment, each pattern display starts change. If it has the pattern combination display which stops and displays the pattern of various combination and each halt pattern of the aforementioned pattern combination display serves as "great success" display which is predetermined combination further If the piece of opening-and-closing wings of the aforementioned winning-a-prize equipment is opened wide, the piece pair of a guide vane is made into a lying-down position at the time of the opening and after predetermined-time progress or the predetermined number goes into ball passage It is the pachinko machine characterized by equipping a play person with the control means which generate a gain \*\*\*\* predetermined operation on the play face of a board by controlling rotation equipment to rotate the piece of a guide vane and to become a standing-up position, and detecting the ball which flowed into the aforementioned special operation mouth further.

[0008]

[Function] If the piece of opening-and-closing wings is opened wide and a hit ball flows into the ball passage within a winning-a-prize case, it will go into the piece opposite of guide vane up standby opening which is in a lying-down state from a free passage mouth through a ball flowing-down way. two of the beginning Since the passage mouth is usually intercepted by the covered section, it \*\*\*\* to the back face of each piece of a guide vane, and the third ball is supported on two middle of \*\*\*\*\*, and stands by within a standby opening, respectively. By the way, after it becomes impossible in a standby opening flowing the fourth ball and it falls on the third ball, it moves to the side by the guide plane, and flows out of a ball exhaust port.

[0009] And rotation equipment drives after predetermined-time progress, and the piece of both guide vanes rotates to the method of outside, and serves as a standing-up position. For this reason, the ball currently supported by the back face of the piece of a guide vane is usually transported to a passage mouth with this rotation, and is discharged from this mouth.

[0010] On the other hand, since the \*\*\*\* pars alaris of the aforementioned piece of a guide vane evacuates and an operation mouth is opened wide specially, the third ball which suited the standby area will flow down certainly at one step to this special operation mouth. By ball passage of this

special operation mouth, a profits \*\*\*\* operation occurs for various game persons on the play board. [0011] If it is when applying to the thing equipped with pattern combination display, you open the piece of opening-and-closing wings wide, only a piece makes it flow down a ball to an operation mouth specially by above-mentioned operation, and it is made to generate the right of great success by this with great success.

[0012]

[Example] One example of this invention is explained about an accompanying drawing.

[0013] Drawing 1 is the front view of the pachinko machine 1, and a ball saucer, the electric handle for ball discharge, etc. are prepared in the lower part which a machine frame 2 does not illustrate. Moreover, as drawing 2 expands and shows, winning-a-prize equipment 4 is arranged in the center of the face of a board of the game board 3.

[0014] Winning-a-prize equipment 4 makes the winning-a-prize case 5 a base, it is surrounded by the upper half by peripheral wall 7a, the display window hole 6 is formed in it, and the ball passage 15 which inclines toward a mid gear in the lower part of this display window hole 6 is formed in it.

[0015] Three pattern displays 10a, 10b, and 10c which combine with the main front face on the ball passage 15 of the aforementioned display window hole 6, and constitute display 9 on the other hand are installed. The aforementioned pattern displays 10a, 10b, and 10c are constituted by 7 segment indicator, Light Emitting Diode, or liquid crystal, and the pattern which consists of a number, the alphabet, etc. is displayed. Moreover, the standby record lamp train 11 which consists of four pilot lamps is formed in the upper-limb section of the wearing window hole 6.

[0016] Opening 12 is formed in the left wall of peripheral wall 7a, this opening 12 is closed in the state of standing up, and the piece 14 of opening-and-closing wings opened in the state of lying down is supported pivotably with the rotation shaft 13 by this opening 12 soffit.

[0017] The aforementioned opening 12 is open for free passage with the ball passage 15 which consists of an inclined plane, and the manifold type of the ball flowing-down way 16 of the vertical direction is carried out to the center section of this ball passage 15, and it is open for free passage to the symmetry hollow part 20 which formed this ball flowing-down way 16 in the inner lower part of the winning-a-prize case 5 through the free passage mouth 18. Moreover, while arranging the ball exhaust ports 17 and 17 in the both-sides section of the ball flowing-down way 16, distributing with the ball exhaust ports 17 and 17, dividing a hollow part 20 by the septa 22 and 22 which incline toward an outside lower part and using between a septum 22 and 22 as the aforementioned free passage mouth 18 It is considering as the guidance sides 23 and 23 which show the superfluous ball with which it overflowed from the free passage mouth 18 so that the upper surface of these septa 22 and 22 might be mentioned later to the ball exhaust ports 17 and 17.

[0018] Moreover, the operation mouth 25 is specially formed in the directly under position of the free passage mouth 18 within the aforementioned symmetry hollow part 20, and the passage mouths 26 and 26 are usually formed in the both-sides position. This special operation mouth 25 is open for free passage with the ball path (not shown) equipped with ball detection equipment.

[0019] If a ball flows down to the aforementioned special operation mouth 25 while discharging the premium ball of a predetermined number according to a well-known mechanism, if a ball usually flows into the passage mouths 26 and 26, it will be detected by ball detection equipment, it will be in an operating state specially, and the aforementioned ball exhaust ports 17 and 17, the special operation mouth 25, and the right that receives necessary gain in a play person will occur.

[0020] Moreover, within the symmetry hollow part 20, the pieces 30 and 30 of a guide vane are supported by pivots 29 and 29, and are arranged by the aforementioned special operation mouth 25 and the common passage mouths 26 and 26 of both sides possible [ rotation ], respectively.

[0021] These pieces 30 and 30 of a guide vane are pivots 29 and 29 and the biased position, and the

regulation shaft 31 is \*\*\*\*(ed) to the front, they insert the nose of cam into the regulation slot 28 formed in the inside of front-wall 7b of the aforementioned winning-a-prize case 5, and a rotation angle is specified to them in this regulation slot 28, and they are changed into drawing 3, the lying-down position of 4 and 6, and drawing 5 and the standing-up position of 7. moreover, \*\*\*\*\* 32 and the thickness-like cover section 33 of the outer edge carry out the manifold type of the pieces 30 and 30 of a guide vane -- having -- becoming -- the piece of a guide vane -- an opposite -- by the lying-down position and the bird clapper, 30 and 30 intercept the operation mouth 25 specially by \*\*\*\*\* 32, and are usually intercepting the passage mouths 26 and 26 in the covered sections 33 and 33 Moreover, on \*\*\*\*\* 32, the circular back face 34 whose \*\*\*\* of a ball piece becomes possible is formed.

[0022] this piece of a guide vane -- an opposite -- the standby opening s is formed between the upper part and free passage mouth 18 in the lying-down position of 30 and 30 While a piece [ every ] ball \*\*\*\* this standby opening s to the aforementioned back face 34, respectively, only the third ball makes \*\*\*\* possible on the middle of both \*\*\*\*\* , and the field is appointed at the ability of four or more balls not to flow from the free passage mouth 18.

[0023] Front-wall 7b of a wrap portion has a translucency for this symmetry hollow part 20, and it enables it to check the operation of these pieces 30 and 30 of a guide vane by looking.

[0024] As shown in drawing 8 and 9, the solenoid 36 supported by the wearing frame 35 behind the winning-a-prize case 5 is coordinated with the coordinated mechanism 37, and it is made to make the aforementioned pivots 29 and 29 carry out the synchronous drive of the aforementioned pivots 29 and 29 to opposite direction. And this solenoid 36 and the coordinated mechanism 37 constitute the piece 30 of a guide vane, and the rotation equipment which carries out rotation conversion of the 30 pairs in a lying-down position and a standing-up position.

[0025] Moreover, the aforementioned piece 14 of opening-and-closing wings is changed into open position and a closing position by drive control by the solenoid 38 similarly attached in the wearing frame 35.

[0026] The starting gate 40 equipped with the sphere detection equipment (not shown) constituted by a photoelectric switch, the limit switch, etc. under the aforementioned winning-a-prize equipment 4 is formed. If a game sphere passes to this starting gate 40 and the sphere detection signal by this sphere detection equipment occurs, while driving the combination display 9, the premium sphere of a predetermined number is generated with passage of the game sphere like the usual winning-a-prize mouth.

[0027] The special winning-a-prize equipment 44 which consisted of rotation CHAKKA 45 by which the hole for a ball piece was formed in the periphery as drawing 10 showed, and its large winning-a-prize mouth 47 arranged caudad is arranged by the method of the right of winning-a-prize equipment 4. This large winning-a-prize mouth 47 is opened and closed by the pieces 48 and 48 of opening-and-closing wings of the right and left in which drive control is carried out by the solenoid. and the time of the special operating state produced when a ball flows down to the operation mouth 25 specially -- the hole of rotation CHAKKA 45 -- a ball -- flowing -- rotation of rotation CHAKKA 45 -- following -- a ball -- CHAKKA passage -- if a hole 46 is supplied -- the pieces 48 and 48 of opening-and-closing wings of the large winning-a-prize mouth 47 -- about 9.8 A second opening operation is carried out. When about ten balls flow into this large winning-a-prize mouth 47, even if it is [ open ] under operation, the open operation is completed. Moreover, when 16 game spheres win a prize of rotation CHAKKA 45, an operating state is completed specially.

[0028] Next, it explains per operation of winning-a-prize equipment 4.

[0029] If a game sphere is hammered out by the game board 3 and it passes through the starting gate 40, either will be elected among the tables of random numbers stored in the storage ROM

connected to the central control unit CPU shown by drawing 11 , and it will hit corresponding to the election value, or a blank will be determined. and -- if the aforementioned combination display 9 is driven through a pattern display drive circuit with supply of a premium sphere, the change start of the pattern displays 10a, 10b, and 10c is carried out and about about 5 seconds pass -- hitting -- the judgment of a blank -- a basis -- from \*\*\*\* and a table of random numbers, the pattern of the pattern displays 10a, 10b, and 10c is determined, and it stops one by one And the same pattern or the pattern displays 10a and 10b are "becoming it a great success", when pattern display 10c is "this" pattern in the same pattern, a solenoid 38 drives, the piece 14 of opening-and-closing wings will be in an inclination state (open state), and the pattern of the pattern displays 10a, 10b, and 10c will shift to the operation which makes the following predetermined gains possible, while a loudspeaker emits singing with the speech processing unit shown by drawing 10 .

[0030] In addition, when a game sphere flows into the aforementioned starting gate 40 continuously, the storage lamp train 11 lights up one by one, and is suspended a maximum of four pieces.

[0031] That is, this piece 14 of opening-and-closing wings is about 5.9. Second opening is carried out and a hitted ball flows partly from opening 12 during this opening. On the other hand, although the pieces 30 and 30 of a guide vane serve as a standing-up position of drawing 7 in the state of synzesis of the piece 14 of opening-and-closing wings, a solenoid 36 drives with great success and the pieces 30 and 30 of a guide vane serve as drawing 3 and a lying-down position of 6 and 8.

Thereby, as shown in drawing 4 and 6, the ball containing opening 12 falls the ball flowing-down way 16 from the ball passage 15, flows in the standby opening s from the free passage mouth 18, and is supported on the back face 34 of the covered section 33 to two pieces (x1 and x2), respectively. And the third (x3) piece is a ball x1 and x2. It is supported on middle and located in the standby opening s. However, more than the fourth (x4) piece cannot enter in the standby opening s from the free passage mouth 18, but it is eliminated in the ball exhaust port 17 and 17 by considering guide plane 23 and 23 as guidance, and serves as a winning-a-prize ball.

[0032] And as a solenoid 36 again driven about 2 seconds after the piece 14 of opening-and-closing wings is closed down, and shown in drawing 5 , and 7 and 9, the pieces 30 and 30 of a guide vane rotate to the method of outside, and will be in a standing-up state. The ball x1 currently supported on the back face 34 by this operation, and x2 By usually being transported to the passage mouths 26 and 26, these common passage mouths 26 and 26 are intercepted by the \*\*\*\* pars alaris 32 and 32, the operation mouth 25 opens them wide specially, and it is the third ball x3. It will flow down certainly to the operation mouth 25 specially at one step.

[0033] And it is a ball x3 to the aforementioned special operation mouth 25. If it flows, it will be detected by the ball detection equipment arranged in the circulation way, it will be in an operating state specially, and the right of great success will occur. That is, even if the combination display 9 serves as combination used as predetermined great success, unless three or more balls flow from opening 12, it does not become effective but the winning-a-prize conditions for generating great success will be added.

[0034] In addition, the advantage which unlike making it generate the above-mentioned operation with the driving force of a solenoid 38, and using expensive driving gears, such as a stepping motor, control is easy an advantage and becomes cheap is produced.

[0035] the hole of rotation CHAKKA 45 of the special winning-a-prize equipment 44 arranged in the method of the right of winning-a-prize equipment 4 between the special operating states which fulfill this winning-a-prize condition and are generated -- a ball -- flowing -- rotation of rotation CHAKKA 45 -- following -- a ball -- CHAKKA passage -- if a hole 46 is supplied -- the pieces 48 and 48 of opening-and-closing wings of the large winning-a-prize mouth 47 -- about 9.8 Second opening is carried out. And as mentioned above, when about ten balls flow into this large winning-



a-prize mouth 47, even if it is [ open ] under operation, the open operation is completed. Moreover, when 16 game spheres win a prize of rotation CHAKKA 45, an operating state is completed specially. \*(ing), a game person will receive the supply of the gain accompanying great success. [0036] In addition, various modes -- the offer mode of the gain accompanying great success arranges the big special winning-a-prize mouth of opening caudad, and opens this -- may be offered. [0037] A series of above-mentioned operations may be easily performed by the control means which consist of a central control unit CPU shown by drawing 11 .

[0038]

[Effect of the Invention] As mentioned above, support this invention possible [ rotation of the pieces 30 and 30 of a guide vane ] to the symmetry hollow part 20 in the winning-a-prize equipment 4 which receives a ball by the open operation of the piece 14 of opening-and-closing wings, and it covers the operation mouth 25 and the common passage mouths 26 and 26 specially in the state of the lying down. They are a ball x1 and x2, respectively on the back face 34 formed in the \*\*\*\* pars alaris 32 of these pieces 30 and 30 of a guide vane. It supports. This ball x1 and x2 It is the ball x3 of a piece on middle. It supports, the pieces 30 and 30 of a guide vane are changed into a standing-up state, and they are a ball x1 and x2. It is made to usually flow into the passage mouths 26 and 26. Ball x3 As it flows into the operation mouth 25 specially, winning-a-prize equipment 4 is constituted. A predetermined gain \*\*\*\* operation is specially generated for a game person according to a ball inflow to the operation mouth 25, and it is a ball x3. It is new to flow down certainly to the operation mouth 25 specially at one step etc., the operation which was rich in change can be produced and the interest of a pachinko game may be increased.

[0039] Moreover, attach the combination display 9 to winning-a-prize equipment 4, and with the combination of each pattern displays 10a, 10b, and 10c of the combination display 9, if it is in the composition it was made to be becoming it a great success the winning-a-prize conditions which the ball would flow into the operation mouth 25 specially, and an operation will occur specially, and were rich in a new change only when the above-mentioned winning-a-prize equipment 4 was becoming it a great success, an open operation was carried out and three or more balls entered from opening 12 -- being generated -- \*\*\*\* -- the outstanding effect which may improve further is about the interest of a pachinko game

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**DESCRIPTION OF DRAWINGS**

[Brief Description of the Drawings]

[Drawing 1] It is the front view of the pachinko machine 1 of this invention.

[Drawing 2] It is the front view of winning-a-prize equipment 4.

[Drawing 3] It is the perspective diagram of the winning-a-prize equipment 4 in which the lying-down position of the pieces 30 and 30 of a guide vane is shown.

[Drawing 4] It is the perspective diagram of the winning-a-prize equipment 4 in which a ball operation in the lying-down position of the pieces 30 and 30 of a guide vane is shown.

[Drawing 5] It is the perspective diagram of the winning-a-prize equipment 4 in which a ball operation in the standing-up position of the pieces 30 and 30 of a guide vane is shown.

[Drawing 6] It is the vertical section front view showing the lying-down operation of the pieces 30 and 30 of a guide vane.

[Drawing 7] It is the vertical section front view showing the standing-up operation of the pieces 30 and 30 of a guide vane.

[Drawing 8] It is the perspective diagram showing the lying-down operation of the pieces 30 and 30 of a guide vane.

[Drawing 9] It is the perspective diagram showing the standing-up operation of the pieces 30 and 30 of a guide vane.

[Drawing 10] It is the front view of winning-a-prize equipment 4 specially.

[Drawing 11] It is the block diagram showing a control-command means.

[Description of Notations]

1 Pachinko Machine

4 Winning-a-Prize Equipment

5 Winning-a-Prize Case

6 Display Window Hole

9 Combination Display

10a, 10b, 10c Pattern display

12 Opening

14 Piece of Opening-and-Closing Wings

15 Ball Passage

16 Ball Flowing-Down Way

18 Free Passage Mouth

20 Symmetry Hollow Part

25 It is Operation Mouth Specially.

26 It is Usually Passage Mouth.

29 Pivot

32 \*\*\*\* Pars Alaris

33 Covered Section

34 Back Face

44 It is Winning-a-Prize Equipment Specially.

s Standby opening

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[Translation done.]

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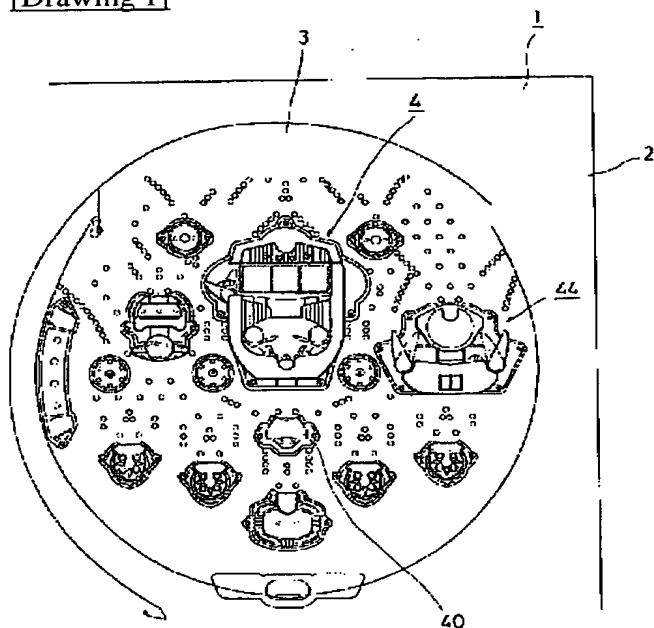
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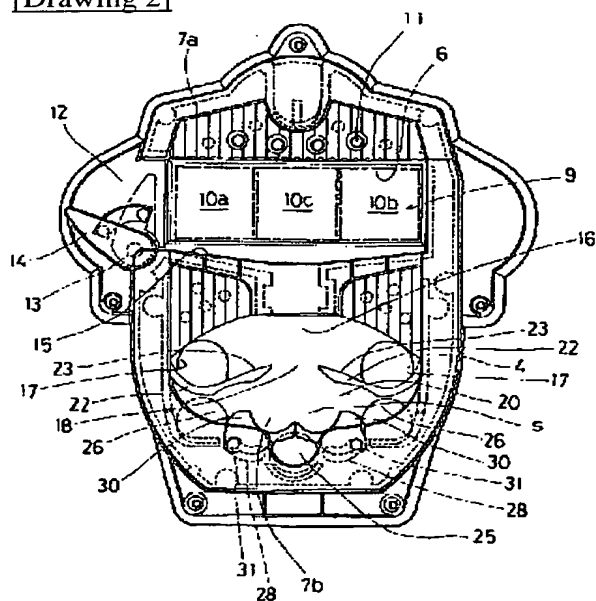
## DRAWINGS

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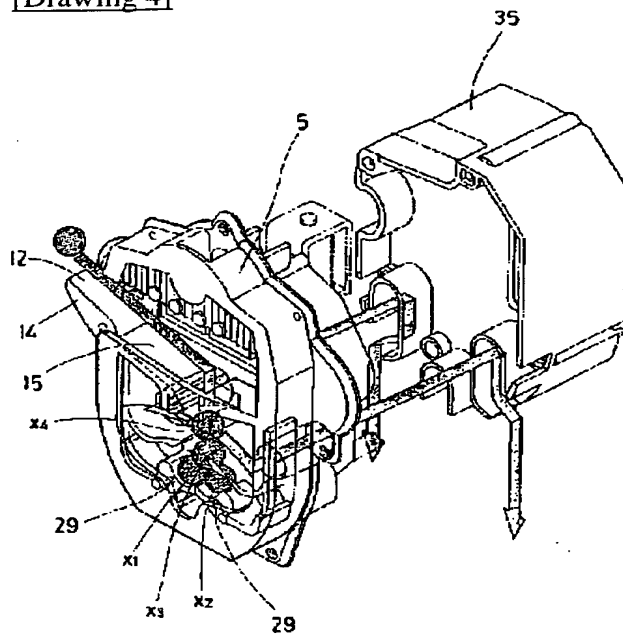
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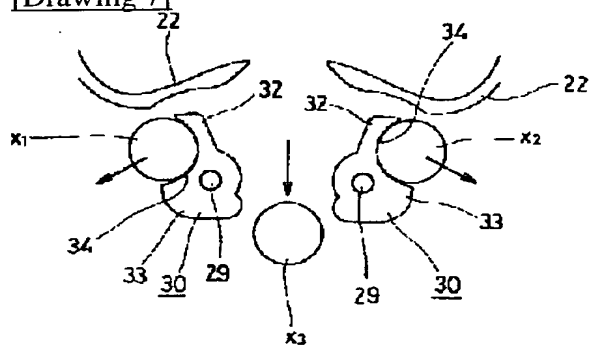
[Drawing 2]



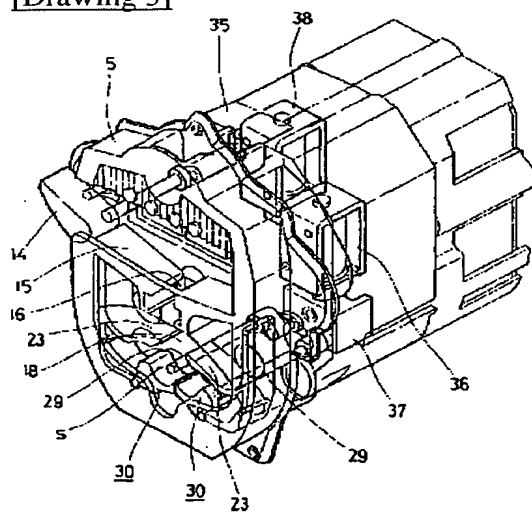
[Drawing 4]



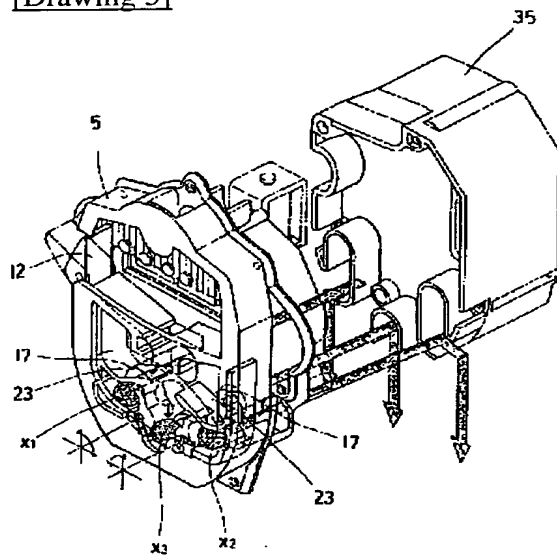
[Drawing 7]



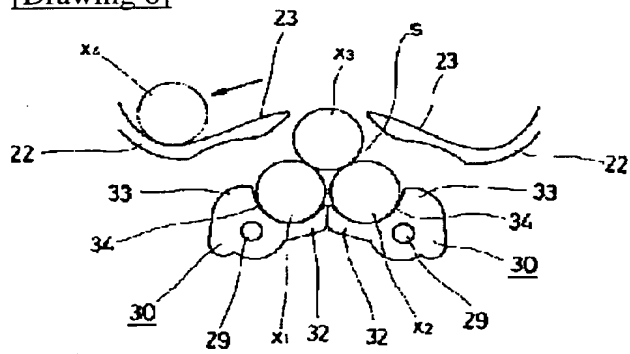
[Drawing 3]



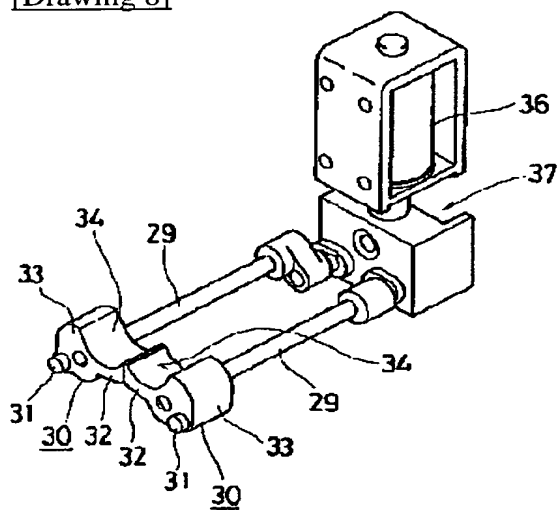
[Drawing 5]



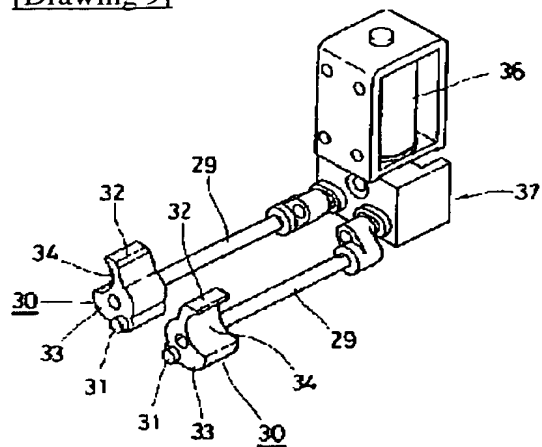
[Drawing 6]



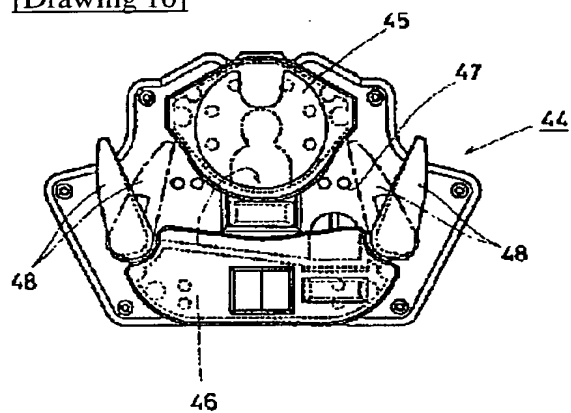
[Drawing 8]



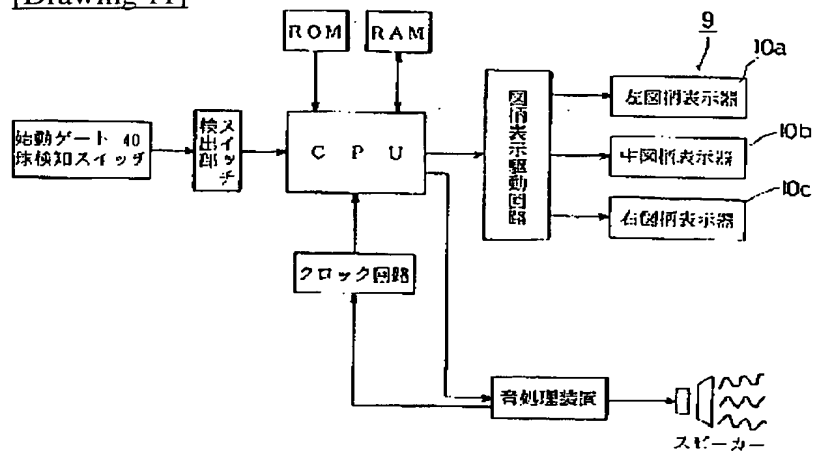
[Drawing 9]



[Drawing 10]



[Drawing 11]



[Translation done.]